

12-06-01

EL844051657

PTO/SB/05 (03-01)

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Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION **TRANSMITTAL**

MI22-1839 Attorney Docket No. First Inventor Warren M. Farnworth Methods of Bonding Solder etc.

(Only for new nonprovisional applications under 37 CFR 1.53(b))

EL 844051657 Express Mail Label No.

APPLICA	TION ELEMENTS	ASSISTANT Commissioner for Patents ADDRESS TO: Box Patent Application			
See MPEP chapter 600 conc	eming utility patent application contents.	ADDRESS 10: Box Patent Application Washington, DC 20231			
1. Submit an original and a a Applicant claims sr See 37 CFR 1.27.		7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)			
3. X Specification (preferred arrangement		a. Computer Readable Form (CRF)			
 Statement Rega Reference to see or a computer pi 	e to Related Applications or the property of t	i. CD-ROM or CD-R (2 copies); or			
- Background of t - Brief Summary		c. Statements verifying identity of above copies			
- Brief Description - Detailed Descrip - Claim(s)	n of the Drawings (<i>if filed</i>) otion	9. Assignment Papers (cover sheet & document(s)) 37 CFR 3.73(b) Statement Y Power of (Assoc)			
- Abstract of the I	Disclosure	10. 37 CFR 3.73(b) Statement (when there is an assignee) Attorney (Assoc.)			
4. A Drawing(s) (35 U. 5. Oath or Declaration	S.C. 113) [Total Sheets 3] [Total Pages 2]	11. English Translation Document (if applicable) 12. X Information Disclosure			
Copy from a	ted (original or copy) prior application (37 CFR 1.63 (d)) ion/divisional with Box 18 completed)	13. X Preliminary Amendment Only Return Receipt Postcard (MPEP 503) (Should be specifically itemized)			
	ON OF INVENTOR(S)	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)			
named in th	tement attached deleting inventor(s) ne prior application, see 37 CFR and 1,33(b).	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Sub. Drawing Request			
6 Application Data	Sheet. See 37 CFR 1.76	17. X Other: Sub. Formal Drawings			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation \(\text{X} \) Divisional \(\text{Continuation-in-part (CIP)} \) of pnor application No.: \(\text{09} \) / 148,723 Prior application information: \(\text{Examiner} \) A. \(\text{Tugbang} \) Group Art Unit: \(\text{3729} \) For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.					
	relied upon when a portion has been inadver	ently omitted from the submitted application parts.			
	19. CORRESPONDE	NCE ADDRESS			
X Customer Number or Bar Co		or Correspondence address below			
	Frederick M. Fliegel, Ph				
1	Wells, St. John, Roberts	Gregory & Matkin P.S.			
Address		Old To Code			
City		State Zip Code			
Country	Tele	phone Fax			
Name (Print/Type)	Frederick M. Fliegel,Ph.	Registration No. (Attorney/Agent) 36,138			
Signature	Dur	Date Control of the needs of the individual case. Any comments on			

the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO Assistant Commissioner for Patents, Box Patent Application. Washington, DC 20231

PTO/SB/17 (10-01)
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Under the Paperwork Reduction Act of 1995, no persons are required to r

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

740.00

Complete if Known				
Application Number				
Filing Date				
First Named Inventor	Warren M. Farnworth	_		
Examiner Name				
Group Art Unit		_		
Attorney Docket No.	MT22-1839	_		

	FEE CALCULATION (continued)					
The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:	3. ADDITIONAL FEES Large Small					
Deposit 27 0025	Large Small Entity Entity					
Account Number 23-0925		Fee Paid				
Deposit Account Name Wells, St. John et al.	105 130 205 65 Surcharge - late filing fee or oath					
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet					
Applicant claims small entity status.	139 130 139 130 Non-English specification					
See 37 CFR 1 27	147 2,520 147 2,520 For filing a request for ex parte reexamination					
2. X Payment Enclosed: X Check Credit card Money Other	112 920* 112 920* Requesting publication of SIR prior to Examiner action					
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action					
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month					
Large Entity Small Entity	116 400 216 200 Extension for reply within second month					
Fee Fee Fee Fee Description	117 920 217 460 Extension for reply within third month					
Code (\$) Code (\$) Fee Paid 101 740 201 370 Utility filing fee 74()	118 1,440 218 720 Extension for reply within fourth month					
106 330 206 165 Design filing fee	128 1,960 228 980 Extension for reply within fifth month					
107 510 207 255 Plant filling fee	119 320 219 160 Notice of Appeal					
108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an appeal					
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing					
	138 1,510 138 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 740.00	140 110 240 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES	141 1,280 241 640 Petition to revive - unintentional					
Fee from Extra Claims below Fee Paid	142 1,280 242 640 Utility issue fee (or reissue)					
Total Claims 19 -20** = 0 x = 0	143 460 243 230 Design issue fee					
Independent S - 3** = 0 x = 0	144 620 244 310 Plant issue fee					
Multiple Dependent =	122 130 122 130 Petitions to the Commissioner					
	123 50 123 50 Processing fee under 37 CFR 1.17(q)					
Large Entity Small Entity Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt					
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)					
102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))					
104 280 204 140 Multiple dependent claim, if not paid	149 740 249 370 For each additional invention to be					
109 84 209 42 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))					
110 18 210 9 ** Reissue claims in excess of 20 and over original patent	179 740 279 370 Request for Continued Examination (RCE)					
and over original patent	169 900 169 900 Request for expedited examination of a design application					
SUBTOTAL (2) $(\$)$ 0	Other fee (specify)					
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	0				

SUBMITTED BY		Complete (if applicable)
Name (Print/Type)	Frederick M. Fliegel, PhD Registration No. 36,138	Telephone 509-624-4276
Signature	On M	Date 0-252001

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Priority Application Serial No	148,723
Priority Filing Date September	3, 1998
Inventor Warren M. Farnwo	rth et al.
Assignee Micron Technol	ogy, inc.
Priority Group Art Unit	3729
Priority Examiner A. 7	Fugbang
Attorney's Docket No	22-1839
TITLE: Methods of Bonding Solder Balls To Bond Pads on a Substrate	

Assistant Commissioner for Patents Washington, D. C. 20231 Attention: Official Draftsman

SUBSTITUTE DRAWING REQUEST

Please enter the enclosed substitute formal drawings in the above-referenced application in place of drawings originally filed. The content of the drawings are identical to those now on file in this application.

Acknowledgment of receipt of the formal drawings and their acceptance into the file is requested.

Respectfully submitted,

Date: (C. 4) (O)

By:

Frederick M. Fliegel, Ph.D.

Reg. No.: 36,138

WELLS, ST. JOHN, ROBERTS, GREGORY & MATKIN P.S.

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Enclosures:

3 Sheets of Formal Drawings, Figs. 1-7.